

***USSOCOM WELCOMES
the
PANEL to REVIEW
CV-22 PROGRAM***



SCHEDULE

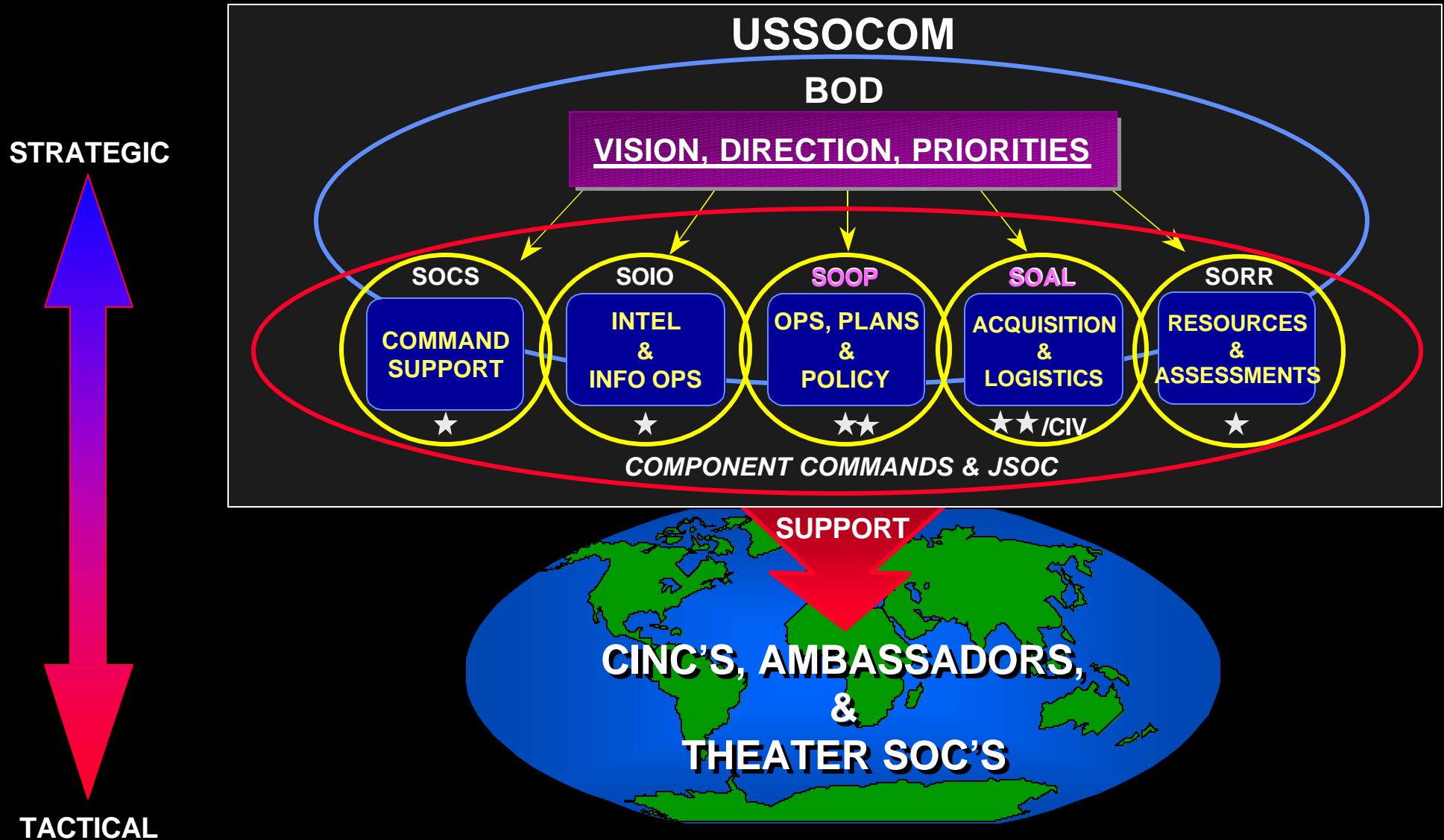
0800 - 0810 **Introduction**

0810 - 0850 **Concerns and Recommendations**

0850 - 0900 **Break**

0900 - 1000 **Open Discussion**

SOCOM Organization & Structure



SCOPE AND PHILOSOPHY

- **MFP 11 IS**
 - <1.4% of DOD BUDGET
 - <1.4% of DOD PERSONNEL
 - DEPENDENT UPON SERVICE EFFORTS
- **MUST EVOLVE TO REMAIN RELEVANT**
- **SOF TRUTHS APPLY**
 - QUALITY IS BETTER THAN QUANTITY
 - SOF CANNOT BE MASS PRODUCED
 - SOF CANNOT BE CREATED FOR A CRISES
 - HUMANS MORE IMPORTANT THAN HARDWARE



INCREASED SOF CAPABILITY TO WARFIGHTING CINCs



FUTURE ENVIRONMENT

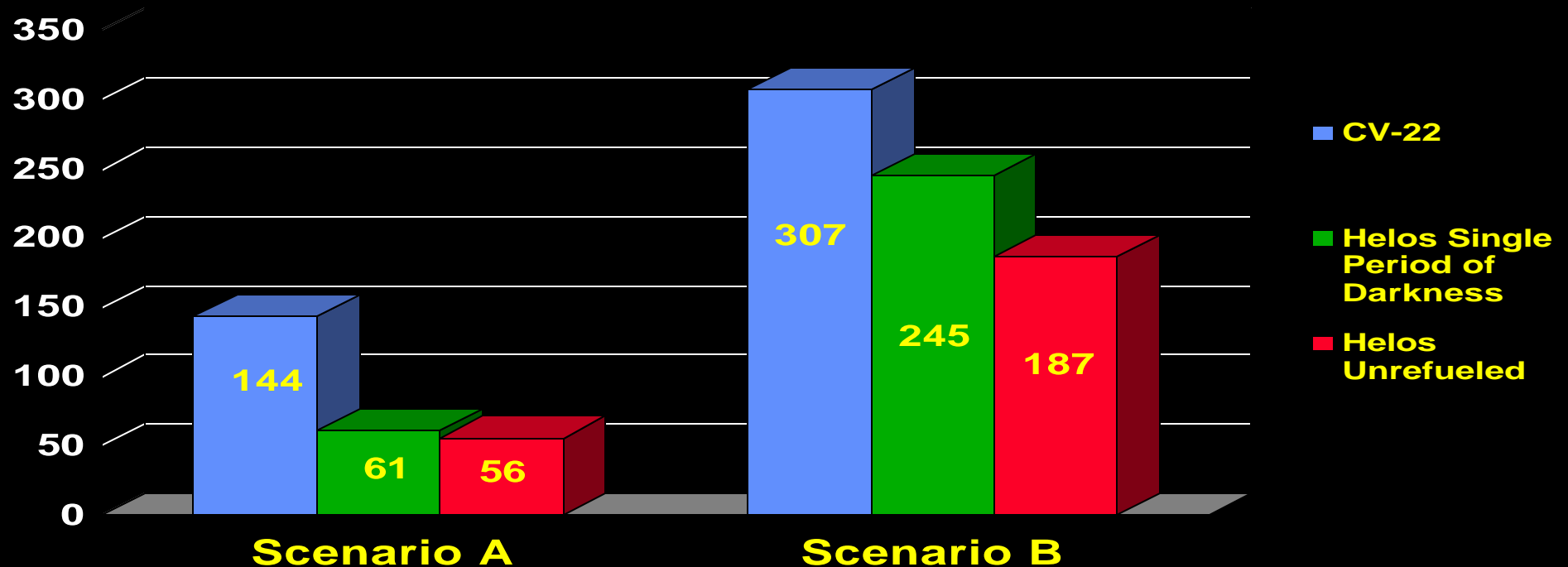
**Robust Defenses
Information Availability
Long Range Weapons
Base Denial**

FUTURE OPERATIONS

**Long Range
Improved Deception
Less Exposure
Greater Self-Protection**

JOINT MISSION ANALYSIS

5 Scenarios with 1258 Illustrative Missions



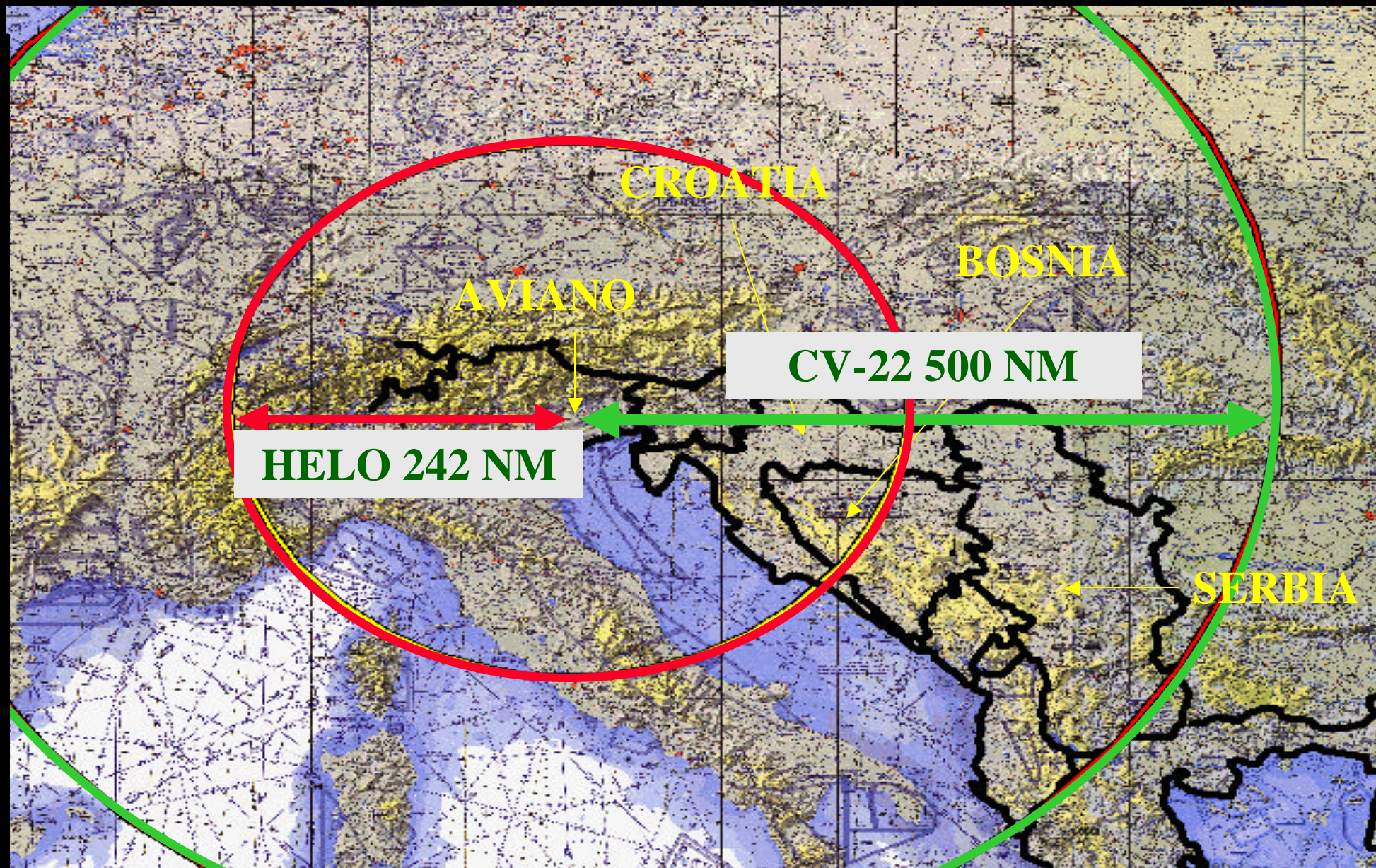
OF THE 1258 MISSIONS

25% Require CV-22 Range

15 % Require CV-22 Speed

CV-22 RANGE ADVANTAGE

More than Four Times the Area Covered



SYSTEM REQUIREMENTS

To Support 9 Principle and 7 Collateral SOF Missions

CAPABILITY

— High Speed **230K Cruise**

GAPS

— Long-Range **500NM Radius**

— Speed

— Vertical Lift **18 Troops**

— Range

— Denied Area Penetration

— Self-Protection

— Low Visibility

NEEDS

— Robust Self Defense

— Safe

— Precision Navigation **2 Rotors/500NM**

— Capable

— Self-Deployable **2100NM Range**

— Survivable

— Shipboard Compatible

— Sustainable

AF SON, 1981 - JORD 2, 2000

The CV-22 ...

- **ADDITIONAL TACTICAL COMMUNICATIONS**
(Simultaneous T/R on 4 Bands)

- **ADVANCED, INTEGRATED DEFENSIVE ELECTRONIC WARFARE SUITE**

- **LPI/LPD RADAR ALTIMETER**

- **SURVIVOR AVIONICS**

- **MULTI-MODE TERRAIN FOLLOWING/ TERRAIN AVOIDANCE (TF/TA) RADAR**

- **900 ADDITIONAL GALLONS OF INTERNAL FUEL+ CABIN AUX TANKS**

- **MULTI-MISSION ADVANCED TACTICAL TERMINAL (MATT)**
(Integrated with Digital Map)

- **COMPUTER AND DIGITAL MAP UPGRADES**

- **FLIGHT ENGINEER SEATING ACCOMMODATION**

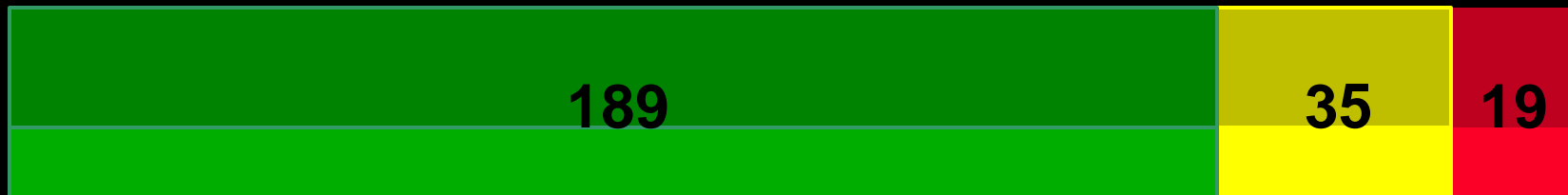
MV-22/CV-22 COMMONALITY

Airframe & Equipment	>90%
Flight Control Software	100%
Mission Software	>60%

...tailored for the Special Operations Mission

JORD SHORTFALLS

- **Sustainability**
- **Air Combat Maneuver**
- **Icing**
- **Navigation**
- **Hoist / Fast Rope**
- **Lighting for NVG Ops**
- **NBC Protection**
- **Oxygen Delivery**



243 JORD Requirements

OPERATORS' PERSPECTIVE

How an Airman Views the CV-22

Operation Eagle Claw



CONOPS 1980 = 35 Hours

CONOP with CV-22s = 8 Hours

CV-22 reduces execution timeline 77%

CONCERNS

- JORD Requirements
- Waivers / Safety
- Formation Flying
- Emergency Power

USERS' PERSPECTIVE

How a User Views the CV-22

CONCERNS

- Same as Operator
- JORD Requirements

MINOR ISSUES

- Vehicle Carriage
- HVAC Sufficiency



TOPLINE RECOMMENDATIONS

- ***Need predictable***
 - ***Program***
 - ***Price***
 - ***Product***
- ***Fix DOT&E***
 - ***Resume promptly***
 - ***Thorough testing***
 - ***Hard look at waivers***
- ***Built-in sustainability***
 - ***Life cycle cost***
 - ***Readiness***
 - ***CRAFT***

WE NEED THE CV-22





QUIET PROFESSIONALS